

# PATENT ABSTRACTS OF JAPAN

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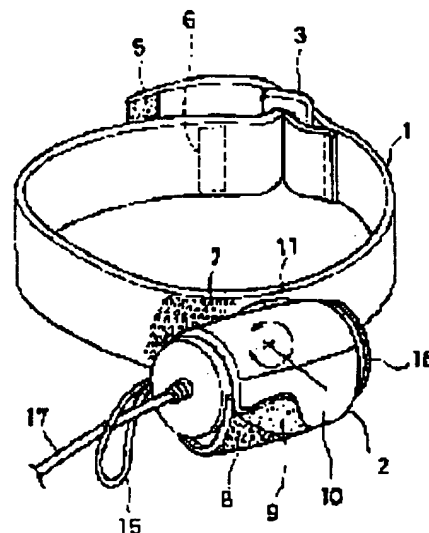
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## (54) HOLDER BAND

### (57)Abstract:

**PURPOSE:** To provide a highly safe holder band at extremely low cost and with good appearance without molding dies.

**CONSTITUTION:** A holder band consists of a flexible band 1 to be fixed on the head part, etc., of a human body like a headband, and a flexible band 2 wound round a camera, etc., to hold it. The band 2 is rotatably connected to the band 1 via the male and female hooks, and both bands 1 and 2 can be freely attached and detached via the velcro fasteners respectively. Furthermore a positioning base cloth 11 containing a velcro fastener is placed at the rotation center of the band 2. Then the cloth 11 is jointed and fixed to the band 1 at the rotation setting position of the band 2.



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TITLE: Holder band for small video cameras - incorporates fixed and holding bands connected by rotation of holder and fixed band is fixed to head whereas holding band holds camera

PATENT-ASSIGNEE: SONY CORP[SONY]

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BASIC-ABSTRACT: The holder band consists of a flexible fixed band (1) that is attachable to the user's. A flexible holding band (2) is provided to hold the camera. The rotary holding part is twisted around the camera.

The holding band is connected to fixed band through hooks. The holding band and the fixed band are attached or detached through magic fasteners (8,14) freely. A positioning stand cloth (11) forming magic fasteners, is set up on the rotation core of the holding band. The magic fasteners carries out the junction fixation of the stand cloth in rotation setting

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2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

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## DETAILED DESCRIPTION

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### [Detailed Description of the Invention]

[0001]

[Industrial Application] this invention relates to the electrode-holder band which can be carried and used for a user's body etc., without having a small video camera etc. in a hand.

[0002]

[Description of the Prior Art] Conventionally, electrode-holder bands, such as this kind and a small video camera, consisted of combination of a plastic-molding article and a metal-forming article. For example, in order to use it for a user's head in support of a small video camera, a head is equipped with the fixed band which consists of a head strap, and it was made to hold a small video camera to the holder fixed to this fixed band.

[0003]

[Problem(s) to be Solved by the Invention] in order that [ however, ] an electrode-holder band which was mentioned above may fabricate a fixed band and a holder with each form block -- fabrication -- the conventional electrode-holder band had the said problem from which a product unit price serves as high cost from requiring the trouble which metal mold is needed and assembles each mold goods Moreover, since the fixed band and the holder are manufactured from the blas tic metallurgy group, while a problem is in the safety on use, there is a problem that design nature is missing.

[0004] what was made in order that this invention might cancel a trouble which was mentioned above -- it is -- fabrication -- it aims at being able to manufacture very cheaply and obtaining the high electrode-holder band of safety and design nature, without [ therefore ] using metal mold entirely

[0005]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, the electrode-holder band by this invention consists of positioning means which carry out position fixation of the maintenance means for the fixed means which can be adjusted longitudinally, a maintenance means to hold support-ed, and the connection means and the fixed means of engaging with a fixed means possible [ rotation of a maintenance means ].

[0006] Moreover, the electrode-holder band by the desirable example of this invention holds a camera as support-ed held at a maintenance means.

[0007] Moreover, the electrode-holder band by the desirable example of this invention equips a maintenance means with the safety band for preventing defluxion of support-ed.

[0008] Furthermore, a fixed means and a maintenance means enable it to detach and attach the electrode-holder band by the desirable example of this invention with a magic fastener.

[0009]

[Function] the electrode-holder band of this invention constituted as mentioned above uses a fixed means for a maintenance means on a user's head in the state where support-ed, such as a small video camera, was held, fixing it -- it is Moreover, since the maintenance means is made possible by rotation by the connection means to the fixed means, it is a rotatable in the arbitrary angle directions, and can carry out position fixation of the support-ed in the setting direction by the positioning means.

[0010]

[Example] Hereafter, the example which applied the electrode-holder band by this invention as an electrode-holder band of a small video camera is explained with reference to a drawing. Drawing 1 shows the perspective diagram of the electrode-holder band of this example. An electrode-holder band consists of a band-like long fixed band 1 as a fixed means, and a short band-like maintenance band 2 as a maintenance means, and consists of a band which has elastic flexibility by the nylon containing rubber, or the product made from polyurethane.

[0011] some fixed bands 1 -- an ellipsis plan is shown in drawing 2 In this fixed band 1, it lets the belt loop ring 3 pass, sewing-machine sewing is carried out by return, and it has supported at the end section. As for this field of the fixed band 1, the female side hook 4 as a connection means is being fixed to nothing and this band side by caulking

section 4a near the belt loop ring 3 in the band front face. Moreover, sewing-machine sewing of the male side magic fasteners 5 and 6 is carried out in two surface band sides (the fixed band 1 the other end and near). And as for the surface band side of others of the fixed band 1, the female side magic fastener 7 is formed.

[0012] On the other hand, the plan of the maintenance band 2 is shown in drawing 3. As for the maintenance band 2, the female side magic fastener 8 is formed in nothing and this band side for this field in the band front face. \*\*\*\* 10 which has the male side magic fastener 9 is attached in the rear face by welding at the end section of the maintenance band 2. Moreover, the male side hook 12 is fixed to the surface center section of the maintenance band 2 by caulking section 12a simultaneously with disc-like positioning \*\*\*\* 11 as a positioning means, and positioning \*\*\*\* 11 is used crosswise as the maintenance band 2 sewing-machine sewing 13 in the center section, and is being fixed. And the male side magic fastener 14 is formed in the front face of \*\*\*\* 11. Furthermore, the loop-like safety band 15 is supported by the maintenance band 2.

[0013] Thus, the fixed band 1 and the maintenance band 2 which were constituted are connected by engaging the male side hook 12 of the maintenance band 2 with the female side hook 4 of the fixed band 1, as shown in drawing 4, and they can carry out the rotatable of the maintenance band 2 360 degrees a center [ the hooks 4 and 12 of a sex ].

[0014] The fixed band 1 can be turned up through the other end of the fixed band 1 to the belt loop ring 3 of the end section, the magic fastener 5 by the side of a male or 6 can be fixed by joining to the female side magic fastener 7 of the front face of the fixed band 1, and the fixed band 1 can fix the shape of a loop to nothing, for example, the head of the body, in the shape of a headband by this.

[0015] The small video camera 16 is held at the maintenance band 2. This video camera 16 is a cylindrical shape-like CCD camera mostly, by twisting the maintenance band 2 around a video camera 16 strongly, and joining the male side magic fastener 9 to the female side magic fastener 8 on the front face of a band, is stabilized and can be held. It is inputted into the videocassette recorder which is not illustrated through the adapter which the image photographed by the CCD camera was changed into the electrical signal, and formed in the edge of the signal code 17, and which is not illustrated.

[0016] Moreover, angle change is possible for CCD camera 16 held at the maintenance band 2 centering on the hooks 4 and 12 of a sex to the fixed band 1 with the maintenance band 2, therefore after positioning CCD camera 16 at a predetermined angle, the angular position is fixable by joining the male side magic fastener 14 of positioning \*\*\*\* 11 to the female side magic fastener 7 on the front face of a band of the fixed band 1.

[0017] Furthermore, what the signal code 17 is held at the safety band 15 though CCD camera 16 slips out of the maintenance band 2 accidentally by letting the signal code 17 pass in the safety band 15 in the maintenance state of CCD camera 16, and falls on the ground can be prevented.

[0018] The example of 1 use of the electrode-holder band constituted as mentioned above is shown in drawing 5. This example shows the case where CCD camera 16 is set to a skier's 18 head. First, the anchoring procedure of a CCD camera twists CCD camera 16 around the maintenance band 2, holds it, and after it rotates the hooks 4 and 12 of a sex for the maintenance band 2 as the center of rotation to the fixed band 1 and determines the photography direction by CCD camera 16, it carries out junction fixation of the male side magic fastener 14 of positioning \*\*\*\* 11 at the female side magic fastener 7 of the front face of the fixed band 1. Then, setting of CCD camera 16 is completed by twisting the fixed band 1 around a skier's 18 head, and carrying out junction fixation of the male side magic fastener 5 of a band edge, or 6 at the female side magic fastener 7 of the front face of the fixed band 1.

[0019] The fixed band 1 seems in addition, to be able to stick and equip a skier's 18 head with it, therefore not to separate from it indiscriminately from a skier's 18 head, since the fixed band 1 consists of elastic bands. Moreover, since the maintenance band 2 also consists of elastic bands, CCD camera 16 can be stuck strongly, and can be held and what CCD camera 16 extracts from the maintenance band 2 indiscriminately can be canceled.

[0020] Moreover, the signal code 17 of CCD camera 16 is connected to the 8mm videocassette recorder of a carried type for example, which the adapter of the edge held in the rucksack which the skier 18 carried on the back, and which is not illustrated. The remote control which the skier 18 had can perform operation of a videocassette recorder easily.

[0021] In the state where the state or skiing on which CCD camera 16 changed into the state where it was suitable ahead of the skier 18, in this way where an electrode-holder band is fixed as mentioned above, therefore the skier 18 has stopped is carried out, the scenery of a skier's direction of a visual axis etc. can be photoed by CCD camera 16.

[0022] In the case of the skier who is having constituted from a band of elastic flexibility and mentioned above the fixed band 1 and the maintenance band 2, as mentioned above, it can fix easily [ an arm, the waist, a leg, etc. ] in addition to a head, and, for this reason, unlike the processing product made from a plastics metallurgy group, the safety of the electrode-holder band of this invention to the body improves. Moreover, it is fixable also to the various structures, such as a veranda outside the interior of a room, and a tree, a pillar, in addition to the body.

[0023] Moreover, the various things from which configurations, such as a video light, and a flashlight, a microphone,

a skiing ticket, and a kind differ also as a maintenance object to the maintenance band 2 except a camera can be held.  
[0024] Moreover, the fixed band 1 and the maintenance band 2 are having made attachment and detachment free with the magic fastener, and the attachment and detachment to an anchorage and attachment and detachment of a maintenance object can perform them simply and easily.

[0025] Furthermore, CCD camera 16 is connectable with a videocassette recorder, a camcorder/movie or a deferred type videocassette recorder etc. which has a value monitor besides a 8mm videocassette recorder.

[0026] Deformation implementation various by within the limits which is not limited to the example which mentioned above and was shown in the drawing, and does not deviate from the summary is possible for this invention.

[0027] For example, the fixed band 1 and the maintenance band 2 turn into a simple electrode-holder band with sufficient appearance appearance by changing various colors, designs, etc. of a band.

[0028] Moreover, although the example showed the example which used the hooks 4 and 12 of a sex as a connection means of the fixed band 1 and the maintenance band 2, connection meanses other than a hook are sufficient. In addition, you may make it connect the fixed band 1 and the maintenance band 2 through a universal joint.

[0029]

[Effect of the Invention] As explained above, the electrode-holder band by this invention At the fixed means which can be adjusted longitudinally, a maintenance means to hold support-ed, and the connection means and the fixed means of engaging with a fixed means possible [ rotation of a maintenance means ], with having constituted from a positioning means which carries out position fixation of the maintenance means Since the metal mold for fabricating a fixed means and a maintenance means becomes entirely unnecessary, it is effective in manufacture cost of an electrode-holder band being made cheaply sharply.

[0030] Moreover, it can fix to the various portion and the various various structures of the body, without using all auxiliary members, and is usable for multiple purposes [ can hold the various things also as a maintenance object, therefore ].

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[Translation done.]